

INTERFACE CIRCUITS

TYPE SN75369 DUAL MOS DRIVER

MOS MEMORY INTERFACE

- Dual Inverting MOS Driver
- Low Standby Power Dissipation
- Versatile Interface Circuit for Use between TTL Levels and Level-Shifted High-Current, High-Voltage Systems
- Inputs May Be Level-Shifted by Use of a Current Source or Capacitive Coupling or Driven Directly by a Voltage Source
- Designed to Be Functionally Interchangeable with National DS0026
- Capable of Driving High-Capacitance Loads
- Compatible with Many Popular MOS RAMs and MOS Shift Registers
- V_{CC} Supply Voltage Variable over Wide Range to 22 Volts Maximum with Respect to VEE
- Operates from Standard Bipolar and/or MOS Supply Voltage
- High-Speed Switching
- Transient Overdrive Minimizes Power Dissipation

description

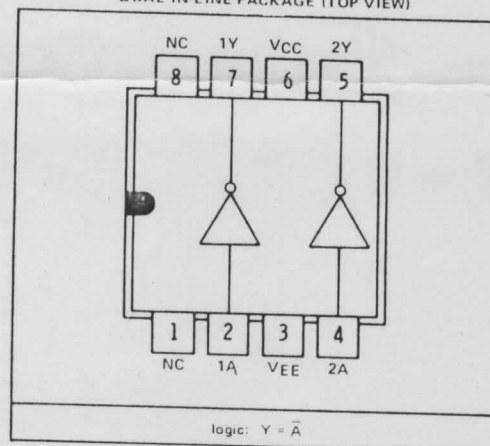
The SN75369 is a monolithic dual MOS driver and interface circuit that operates with either current-source or voltage-source input signals. The device accepts appropriate level-shifted input signals from TTL or other logic systems and provides high-current and high-voltage output levels suitable for driving MOS circuits. Specifically, it may be used to drive address, control, and/or timing inputs for several types of MOS RAMs and MOS shift registers.

The SN75369 operates from standard MOS and/or bipolar supplies in most applications. This device has been optimized for operation with V_{CC} supply voltage from 12 volts to 20 volts positive with respect to VEE. However, it is designed so as to be usable over a wide range of V_{CC} .

Inputs of the SN75369 are referenced to the VEE terminal and contain a series current-limiting resistor. The device will operate with either positive current input signals or voltage input signals that are positive with respect to VEE. In many applications the VEE terminal is connected to the MOS V_{DD} supply of -12 volts to -15 volts with the inputs to be driven from TTL levels or other positive voltage levels. The required negative level shifting may be done with an external p-n-p transistor current source or by use of capacitive coupling and appropriate input voltage pulse characteristics.

The SN75369 is characterized for operation from 0°C to 70°C.

JG OR P
DUAL IN-LINE PACKAGE (TOP VIEW)



NC - No internal connection